

The present invention relates to a biosensor. The biosensor includes a support substrate having first and second ends, electrodes positioned on the support substrate, the electrodes cooperating with one another to define electrode arrays situated adjacent to the first end, a spacer substrate positioned on the support substrate, and a cover positioned on the spacer substrate. The cover cooperates with the support substrate to define a channel. The channel includes an inlet adjacent to the first end and opposite ends. Each electrode array is positioned in the channel adjacent to one of the ends.